

**In the Claims:**

This listing of claims will replace all prior versions, and listing, of claims in the application:

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1. (Currently amended) A reflective imaging encoder comprising:  
a substrate,  
an emitter mounted on the substrate emitting light,  
a diffuse reflective coder reflecting light from the emitter,  
10 an imaging lens forming an inverted imaging of the reflected light from the coder, and  
a an image detector mounted on the substrate receiving the inverted image from the imaging lens, and  
a baffle between the emitter and the image detector.
- 15 2. (Currently amended) The reflective imaging encoder of Claim 1 where the coder is a code wheel image detector is a photodiode array.
- 20 3. (Currently amended) The reflective imaging encoder of Claim 1 where the coder is a code strip image detector is a CMOS imaging sensor.
4. (Original) The reflective imaging encoder of Claim 1 where the emitter is a light emitting diode.
- 25 5. (Original) The reflective imaging encoder of Claim 4 where the light emitting diode is an unencapsulated light emitting diode chip.
6. (Original) The reflective imaging encoder of Claim 4 where the light emitting diode is encapsulated.
- 30 7. (Original) The reflective imaging encoder of Claim 4 where the emitter is a packaged light emitting diode.

8. (Original) The reflective imaging encoder of Claim 6 where the encapsulation forms an optical axis.

5 9. (Original) The reflective imaging encoder of Claim 8 where the light emitting diode is mounted on the optical axis.

10. (Original) The reflective imaging encoder of Claim 8 where the light emitting diode is mounted offset from the optical axis.

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11. (Original) The reflective imaging encoder of Claim 6 where the light emitting diode includes a reflector cup.

12. (Original) The reflective imaging encoder of Claim 11 where the encapsulation forms an optical axis.

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13. (Original) The reflective imaging encoder of Claim 12 where the light emitting diode is mounted on the optical axis.

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14. (Original) The reflective imaging encoder of Claim 12 where the light emitting diode is mounted offset from the optical axis.

15. (Original) The reflective imaging encoder of Claim 4 where the emitter is a plurality of light emitting diodes.

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16. (Original) The reflective imaging encoder of Claim 1 where the imaging lens is separate from the detector.

17. (Original) The reflective imaging encoder of Claim 1 where the imaging lens is

30 incorporated into the encapsulation of the detector.

18. (Original) The reflective imaging encoder of Claim 1 further including an aperture between the coder and the imaging lens.

19. (Original) The reflective imaging encoder of Claim 1 further including an aperture between the imaging lens and the detector.

20. (Original) The reflective imaging encoder of Claim 1 further including a first  
5 aperture between the coder and the imaging lens and a second aperture between the imaging lens and the detector.

21. (canceled)

10 22. (canceled)

23. (canceled)

24. (canceled)

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25. (canceled)

26. (Original) The reflective imaging encoder of Claim 1 where the detector is mounted on the optical axis of the imaging lens.

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27. (canceled)